MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product identifier LPS® PF® Solvent

Version # 01

Issue date 01-06-2014
CAS # Mixture

Part Number 61420, C61420

Product use A solvent agent designed for removing grease, oil and other residues from metal, power cable and

fiber optic cable surfaces.

Manufacturer LPS Laboratories, a division of Illinois Tool Works

information 4647 Hugh Howell Rd

Tucker, Georgia 30084 United States

www.lpslabs.com

1-800-241-8334/ 770-243-8800 Chemtrec 1-800-424-9300

2. Hazards Identification

Emergency overview DANGER

Flammable aerosol. Contents under pressure. May be ignited by heat, sparks or flames.

HARMFUL OR FATAL IF SWALLOWED.

May cause an allergic skin reaction. May be irritating to eyes.

Potential health effects

Routes of exposure Eye contact. Skin contact. Inhalation. Ingestion. **Eyes** Avoid contact with eyes. May cause eye irritation.

Skin Avoid contact with the skin. May cause sensitization by skin contact.

InhalationDo not breathe fumes. Prolonged inhalation may be harmful.IngestionDo not ingest. Harmful: may cause lung damage if swallowed.

Signs and symptoms Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing,

redness, swelling, and blurred vision. May cause an allergic skin reaction. Symptoms may include

redness, edema, drying, defatting and cracking of the skin.

Potential environmental effects Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition / Information on Ingredients

Components	CAS#	Percent
Naphtha Petroleum, Hydrotreated Heavy	64742-48-9	60 - 100
D-LIMONENE	5989-27-5	7 - 13
CARBON DIOXIDE	124-38-9	1 - 5

4. First Aid Measures

First aid procedures

Eye contact Any material that contacts the eye should be washed out immediately with water. If easy to do,

remove contact lenses. Continue rinsing. Get medical attention if irritation develops and persists.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Call a physician if symptoms develop or persist.

Ingestion Call a physician or poison control center immediately. Only induce vomiting at the instruction of

medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs,

keep head low so that stomach content doesn't get into the lungs.

Notes to physician Provide general supportive measures and treat symptomatically.

General advice Call a POISON CENTER or doctor/physician if you feel unwell.

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5. Fire Fighting Measures

Flammable properties Flammable by WHMIS criteria. Pressurized container may explode when exposed to heat or flame.

Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Protection of firefighters

Specific hazards arising from the chemical

Pressurized container may explode when exposed to heat or flame.

Protective equipment for

firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with

face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

Explosion data

Sensitivity to static

discharge

None known.

Sensitivity to mechanical

impact

None known.

Hazardous combustion

products

May include oxides of carbon.

General fire hazards Flammable aerosol.

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. For personal protection, see section 8 of the MSDS.

Environmental precautions Do not contaminate water.

Should not be released into the environment. For waste disposal, see section 13 of the MSDS. Methods for cleaning up

7. Handling and Storage

Handling Pressurized container: Do not pierce or burn, even after use. Avoid contact with eyes. Do not get

this material in contact with skin. Avoid prolonged exposure. Avoid release to the environment.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding Storage

50°C/122°F. Store locked up. Store away from incompatible materials (see Section 10 of the

MSDS).

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value	
Carbon Dioxide (CAS 124-38-9)	STEL	30000 ppm	
	TWA	5000 ppm	
Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)			
Components	Туре	Value	

Carbon Dioxide (CAS 124-38-9)	STEL	54000 mg/m3
121 00 0,	TWA	30000 ppm 9000 mg/m3
		5000 ppm

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value
Carbon Dioxide (CAS 124-38-9)	STEL	15000 ppm
,	TWA	5000 ppm

Material name: LPS® PF® Solvent MSDS CANADA Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) Components Value Type Carbon Dioxide (CAS STEL 30000 ppm 124-38-9) **TWA** 5000 ppm Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) Components Value **Type** STEL Carbon Dioxide (CAS 30000 ppm 124-38-9) **TWA** 5000 ppm Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) Components **Type** Value Carbon Dioxide (CAS STEL 54000 mg/m3 124-38-9) 30000 ppm **TWA** 9000 mg/m3 5000 ppm US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Components Type Value Carbon Dioxide (CAS PEL 9000 mg/m3

5000 ppm **Biological limit values**No biological exposure limits noted for the ingredient(s).

Engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates

should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

124-38-9)

Eye / face protection Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Eye wash fountain is

recommended.

Skin protection Avoid contact with the skin. Wear suitable protective clothing and gloves. Chemical resistant

gloves.

Respiratory protection No personal respiratory protective equipment normally required. Do not breathe

dust/fume/gas/mist/vapors/spray.

9. Physical & Chemical Properties

Appearance

Physical state Gas.
Form Aerosol.

Color Clear water-white

Odor Orange
Odor threshold Not available.

pH Not applicable

Vapor pressure 0.48 mm Hg @ 20

Vapor pressure 0.48 mm Hg @ 20°C

Vapor density > 1 (air = 1)

Boiling point 365 °F (185 °C) @760 mm Hg

Melting point/Freezing pointNot available.Solubility (water)Negligible

Specific gravity 0.74 - 0.78 @20°C Relative density Not available.

Flash point > 141.8 °F (> 61.0 °C) Tag Closed Cup

Flammability limits in air, upper, % by volume

5.3 %

Flammability limits in air,

0.7 %

lower, % by volume

Auto-ignition temperature 635 °F (335 °C)

VOC 100 % per US State and Federal Consumer Product Regulations

Evaporation rate < 0.1 BuAc = 1**Viscosity** $1.5 \text{ cSt} @ 25^{\circ}\text{C}$

Percent volatile 100 %

Partition coefficient Not Determined

(n-octanol/water)

Other data

Heat of combustion > 30 kJ/g

10. Chemical Stability & Reactivity Information

Chemical stability Material is stable under normal conditions.

Conditions to avoid Heat, flames and sparks. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Carbon oxides.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

i oxicological data			
Components	Species	Test Results	
D-LIMONENE (CAS 5989-	27-5)		
Acute			
Dermal			
LD50	Rabbit	> 5000 mg/kg	
Oral			
LD50	Mouse	5600 - 6600 mg/kg	
	Rat	> 2000 mg/kg	
Other			
LD50	Mouse	1.3 g/kg	
	Rat	0.11 g/kg	
Acute effects	May cause an allergic skin rea airways.	ction. Harmful if swallowed. May be fatal if swallowed and enters	
Local effects	May cause sensitization by ski	n contact.	
Chronic effects	Prolonged or repeated contact be harmful.	Prolonged or repeated contact may cause drying, cracking, or irritation. Prolonged inhalation may be harmful.	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		

IARC Monographs. Overall Evaluation of Carcinogenicity

D-LIMONENE (CAS 5989-27-5)

3 Not classifiable as to carcinogenicity to humans.

Mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Reproductive effects This product is not expected to cause reproductive or developmental effects.

Symptoms and target organs Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing,

redness, swelling, and blurred vision. May cause an allergic skin reaction.

12. Ecological Information

Ecotoxicological data

Ecoloxicological dala					
	Components		Species	Test Results	
	D-LIMONENE (CAS 5989-2	7-5)			
	Aquatic				
	Crustacea	EC50	Water flea (Daphnia pulex)	69.6 mg/l, 48 hours	
	Fish	LC50	Fathead minnow (Pimephales promelas)	0.619 - 0.796 mg/l, 96 hours	

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Ecotoxicity Toxic to aquatic life with long lasting effects.

Environmental effects Toxic to aquatic organisms.

Aguatic toxicity Toxic to aguatic organisms. May cause long-term adverse effects in the aguatic environment.

Partition coefficient

D-LIMONENE 4.232

Mobility in environmental

media

The product is immiscible with water and will spread on the water surface.

13. Disposal Considerations

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international regulations.

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport Information

TDG

UN number UN1950

UN proper shipping name Aerosols, flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk -

Packing group Not applicable.

Environmental hazards No

Special precautions for user Not available.

IATA

UN number UN1950

UN proper shipping name Aerosols, flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

Environmental hazards No

Special precautions for user Not available.

Other information

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only

Allowed.

IMDG

UN number UN1950

UN proper shipping name Aerosols, flammable, MARINE POLLUTANT

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

Environmental hazards

Marine pollutant Yes
EmS F-D, S-U
Special precautions for user Not available.

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IATA; IMDG; TDG



Marine pollutant



15. Regulatory Information

WHMIS status Controlled

WHMIS classification A - Compressed Gas B5 - Flammable Aerosols

D2B - Other Toxic Effects-TOXIC

Inventory name

WHMIS labeling





Country(s) or region



Inventory status

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Material name: LPS® PF® Solvent

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On inventory (yes/no)*

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).